

# US-77 Corridor Wahoo - Fremont

September 23, 2022

NEBRASKA

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DEPARTMENT OF TRANSPORTATION

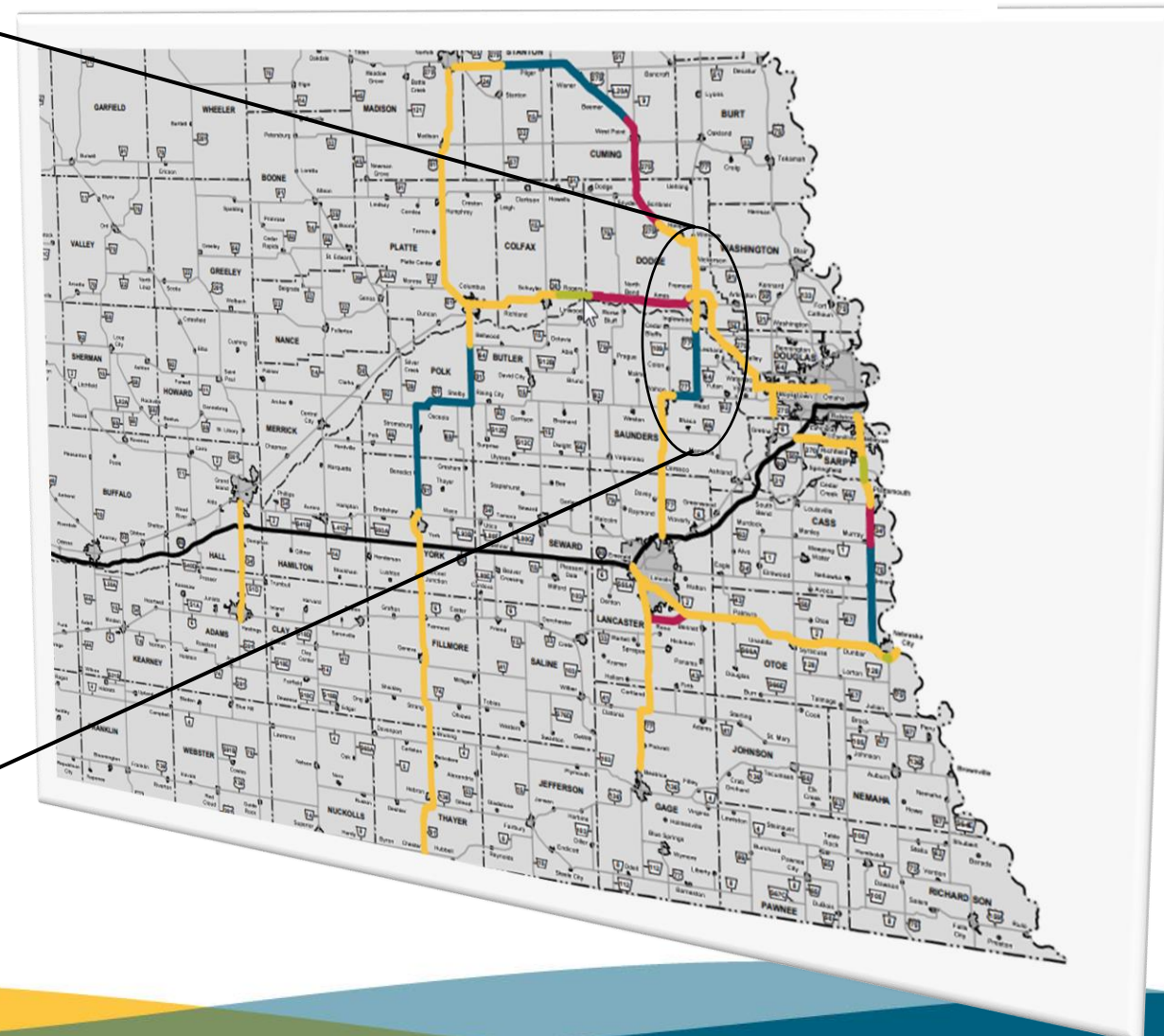
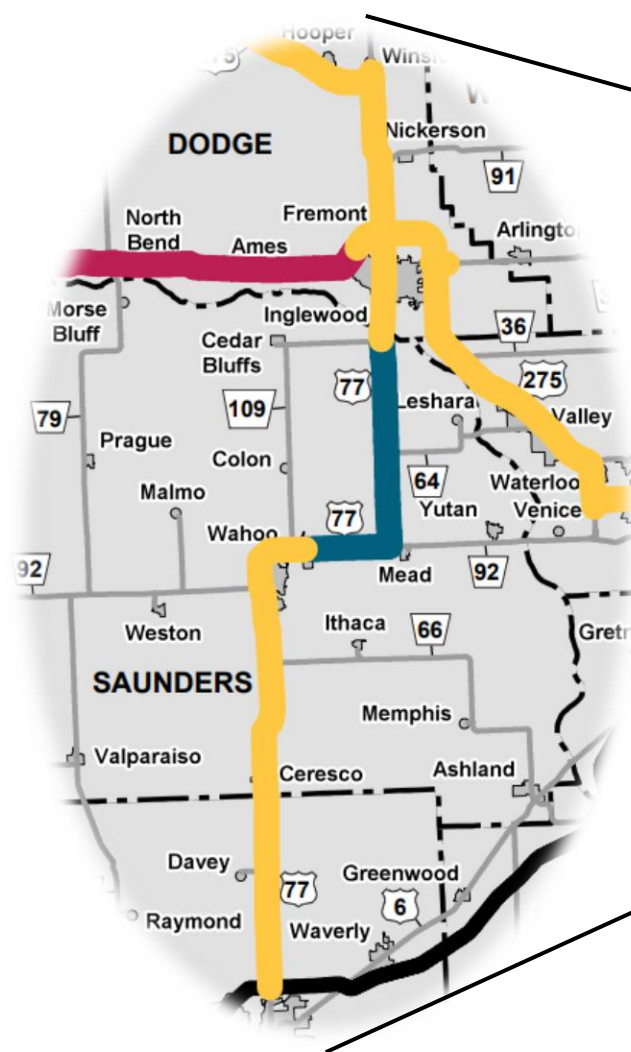
Mick Syslo, Roadway Design Division Engineer

# Discussion Topics

- Expressway System
- 2+2 Approach
- US-77 Corridor and Timeline



# Expressway System



# Project Purpose

- **Fulfill legislative intent** to continue development of the expressway system identified in the 1988 Nebraska Highway Needs Study.
- **Improve regional connectivity** for vehicles, including commercial vehicles, by providing important expressway connections with existing Nebraska Highway(s) while **maintaining convenient highway access** for communities within the area.
- **Reduce the annual corridor delay**
- **Maximize use of existing transportation infrastructure**, including connecting highways, and existing right-of-way (ROW) and improve the reliability and condition of existing facilities.



# 2 Plus 2 Approach

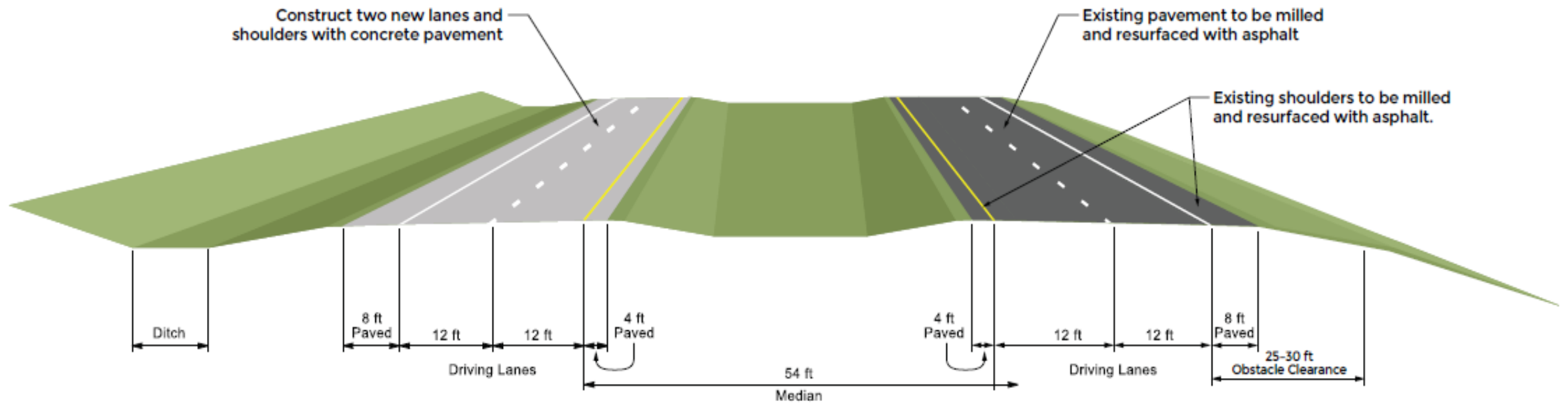
## Criteria

- Existing lanes
  - Remain in place
  - Asset preservation
  - Resurface
- New lanes
  - Offset of existing
  - New & Reconstruction Standards

## Goals

- Stay consistent with 2+2 concept
- Minimize impacts to existing infrastructure
  - Analyze and balance the system

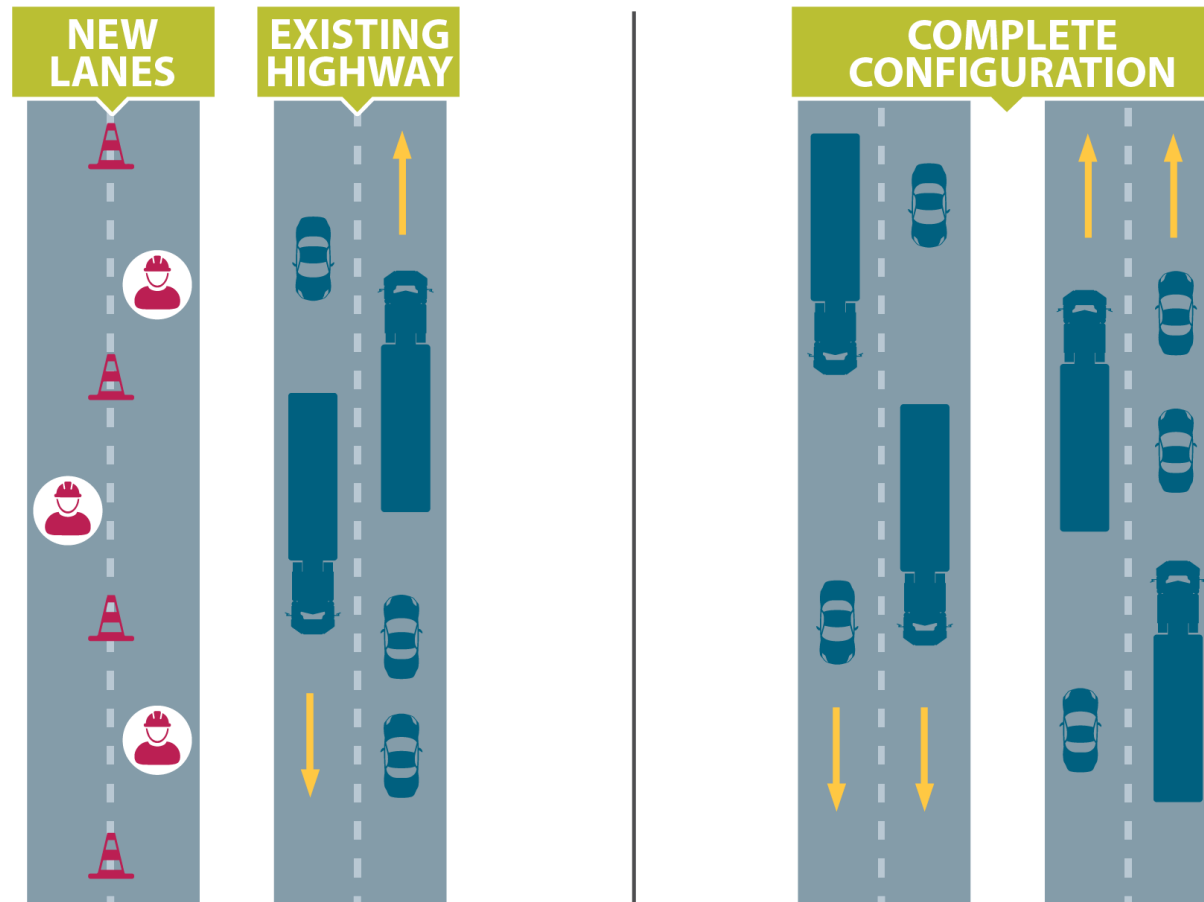




**Expressway Section**

# Typical Section

# 2+2 Construction



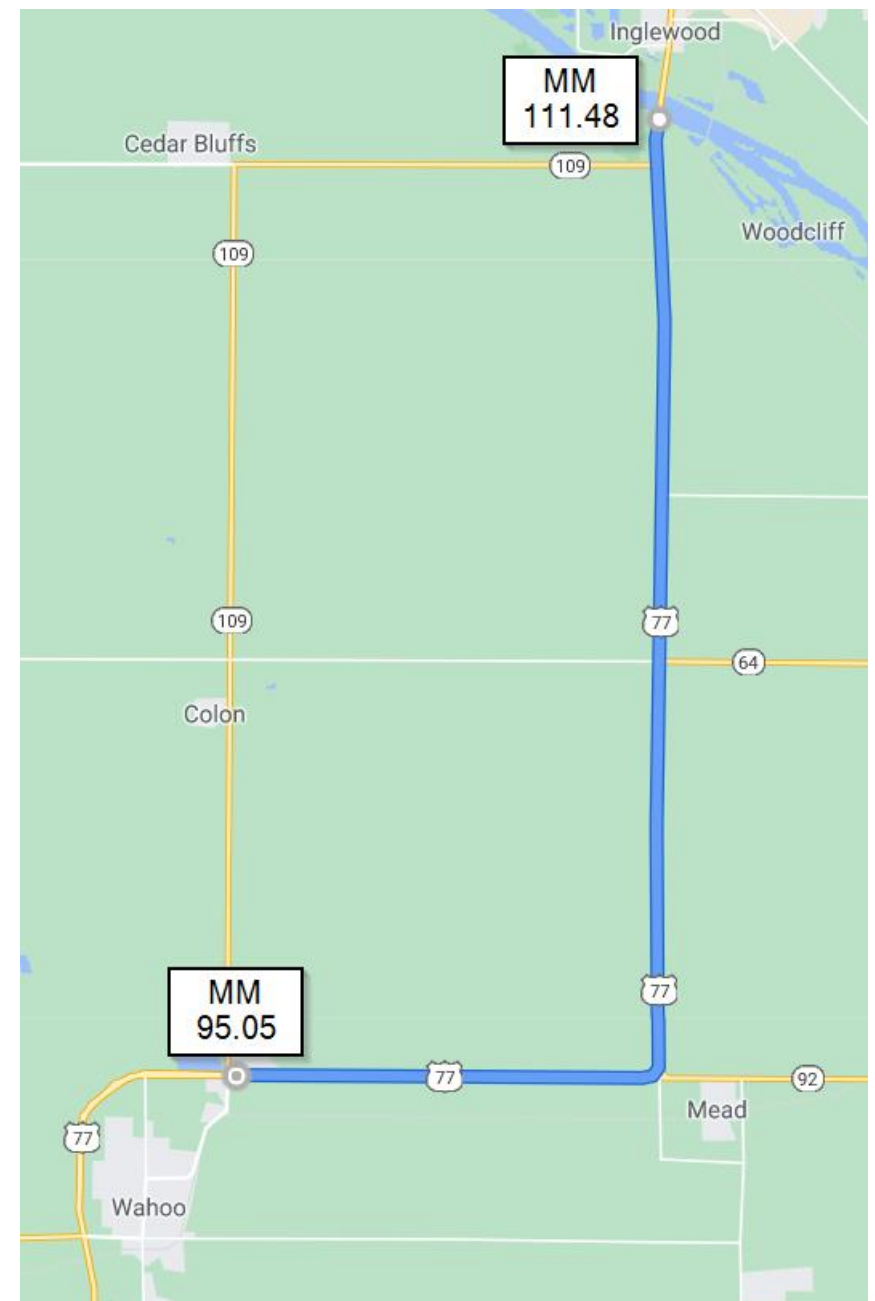
# US-77 Corridor





# Location

- 16.43 miles of US-77
- East of Wahoo (R.P. 95.05)
- South of Platte River bridge (R.P. 111.48)

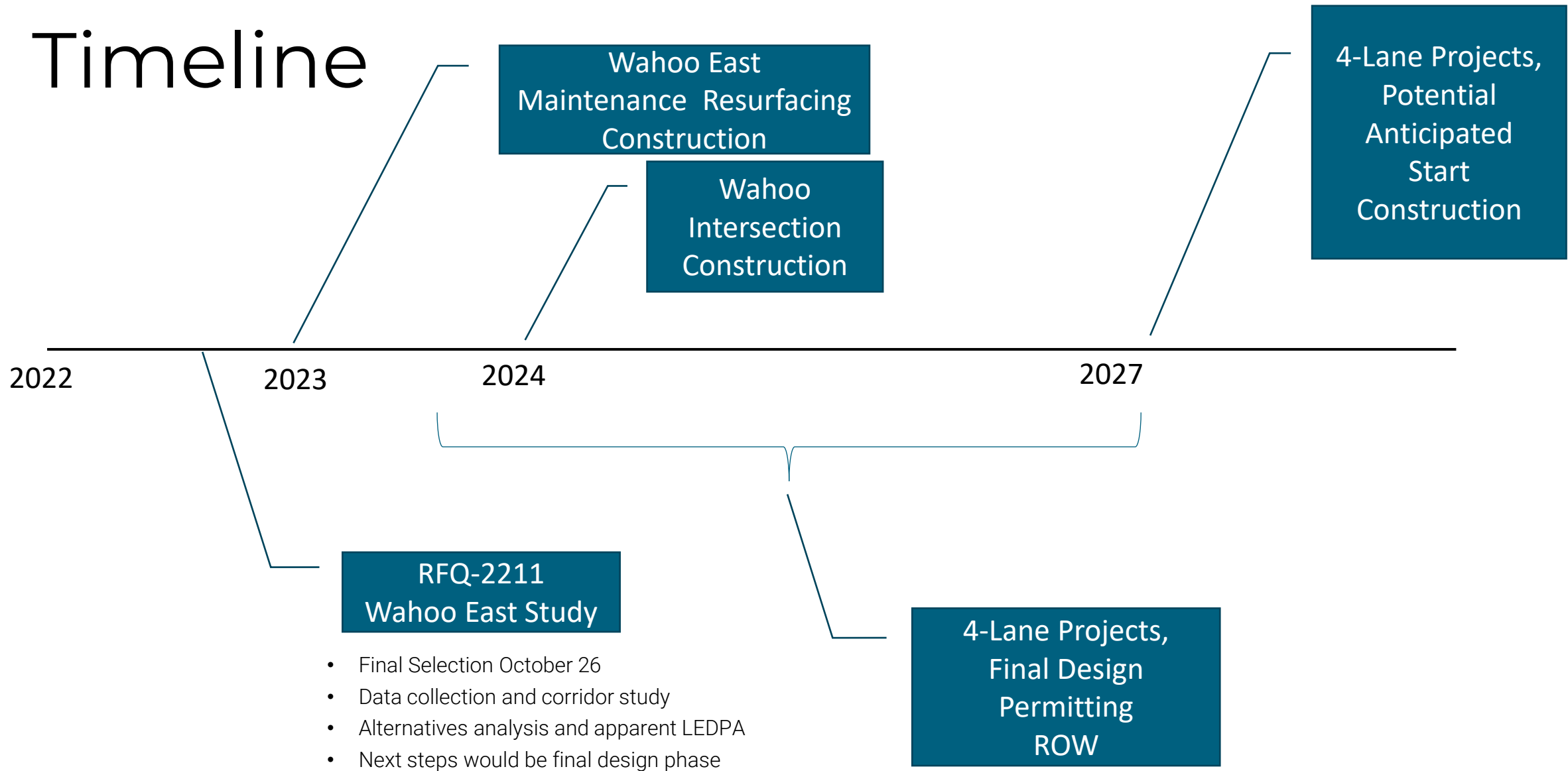


# Programmed Projects

- CN 13394, Wahoo East (Maintenance Project)
- CN 13502, Wahoo Intersection
- 4-Lane Expansion
  - CN 11805, Wahoo East
  - CN 11806, Mead North
  - CN 12192, Fremont South



# Timeline



# Timeline

Wahoo East  
Maintenance Resurfacing  
Construction

2022

2023

2024

2027

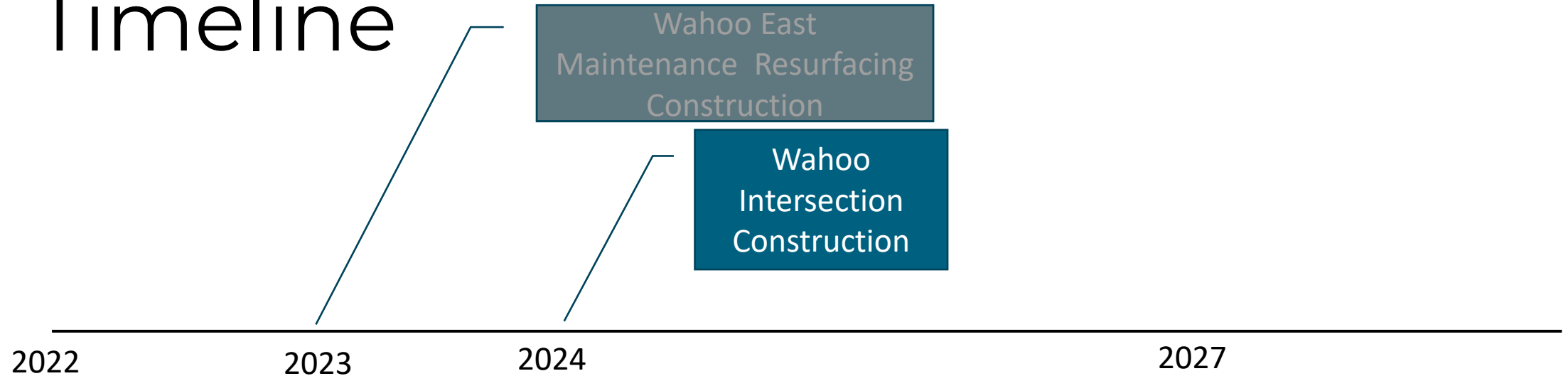


# Maintenance Resurfacing

- 2-inch M/F
- Preserve existing asset
- Improve riding surface
- Provide life for 4-Lane expansion construction
- Construction 2023

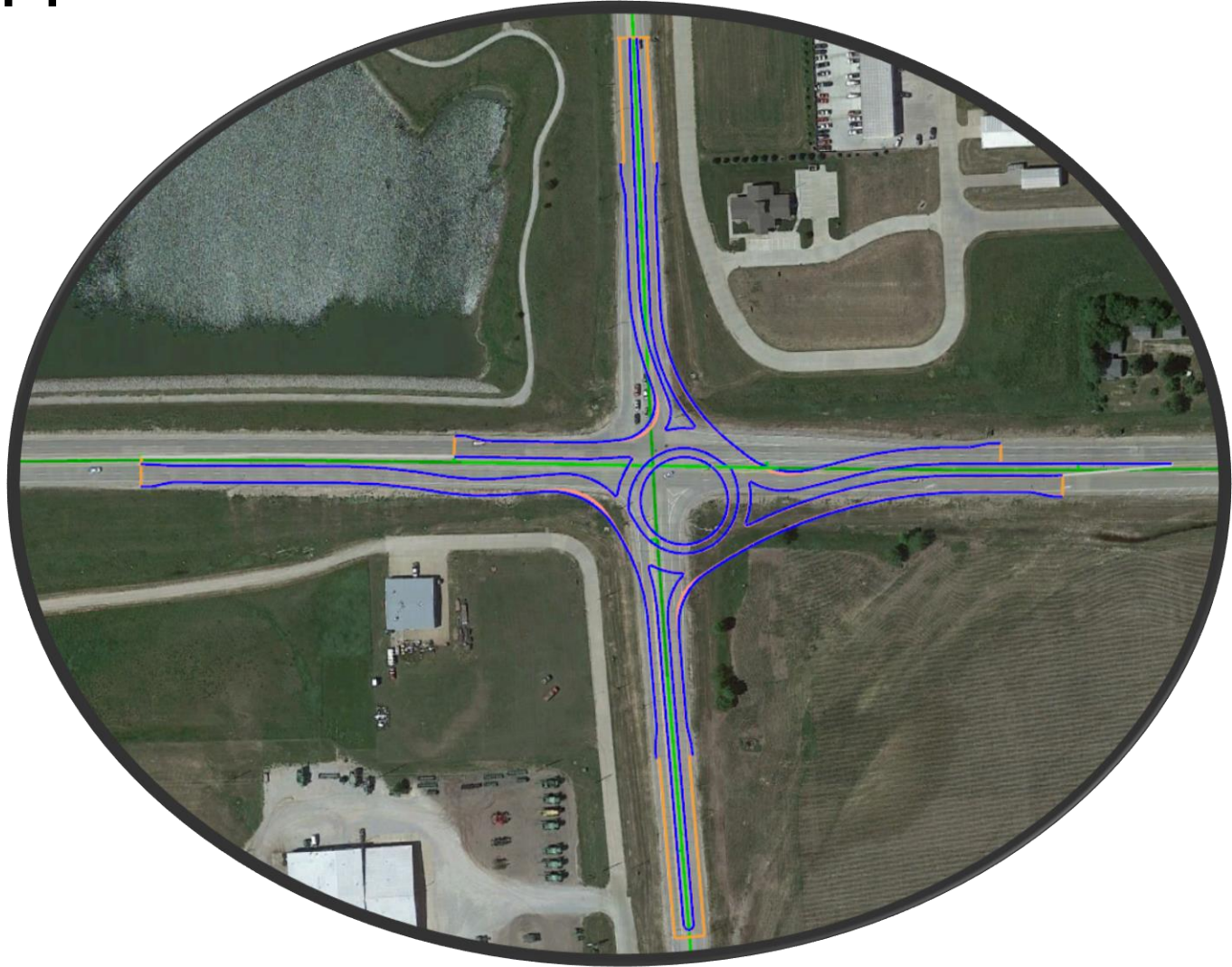


# Timeline



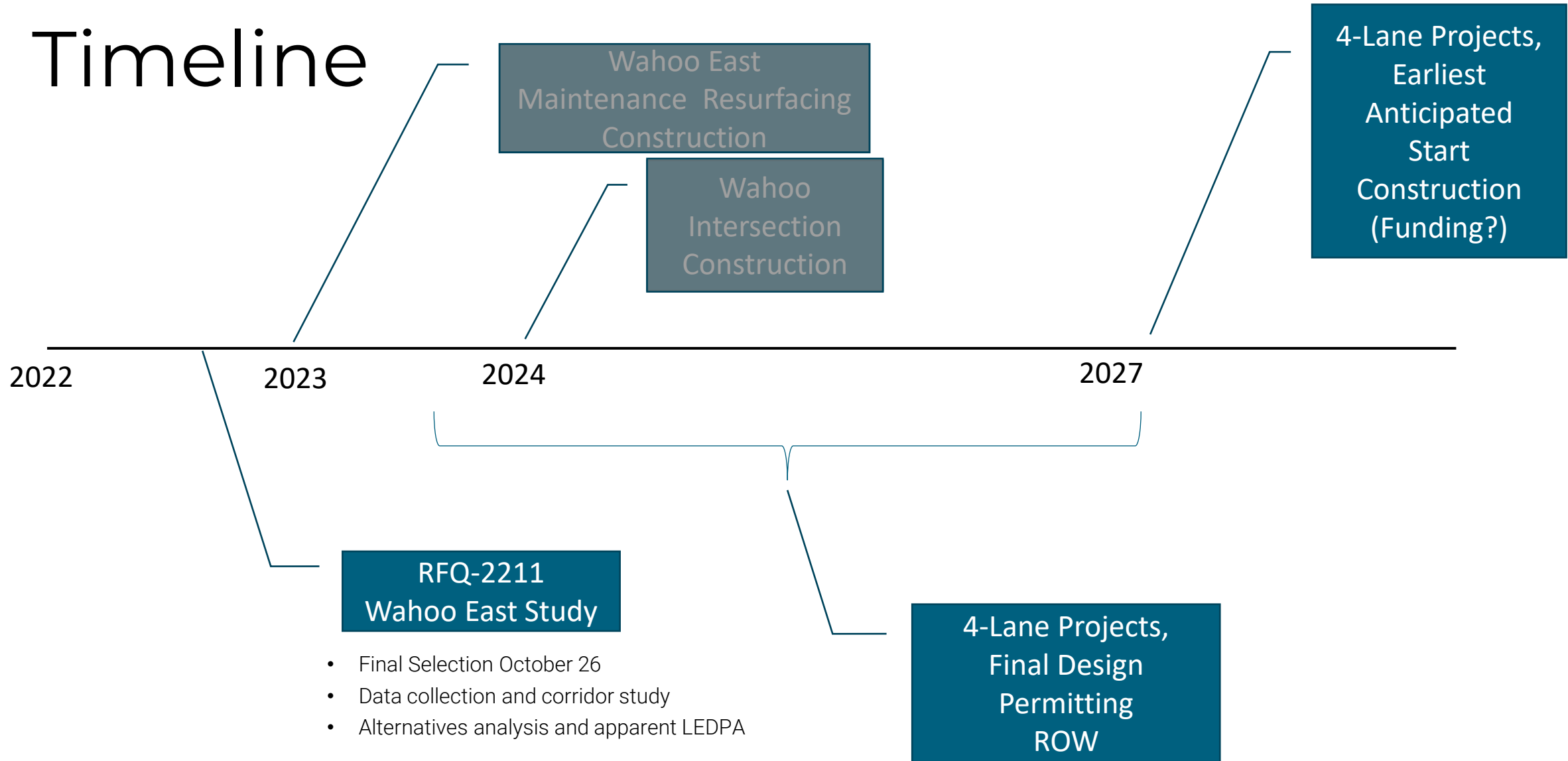
# Wahoo Intersection

- Safety Improvement Project
- Roundabout design
- 2 – lanes each direction E/W
- 1 – lane each direction N/S
- Construction 2024





# Timeline





# Corridor Study

- Alternatives analysis
  - Left or Right of existing
  - Safety improvements
  - Deficiencies
  - Drainage
- Bridges
  - Repair or Replace
- Environmental impacts
- ROW impacts
- Cost estimate

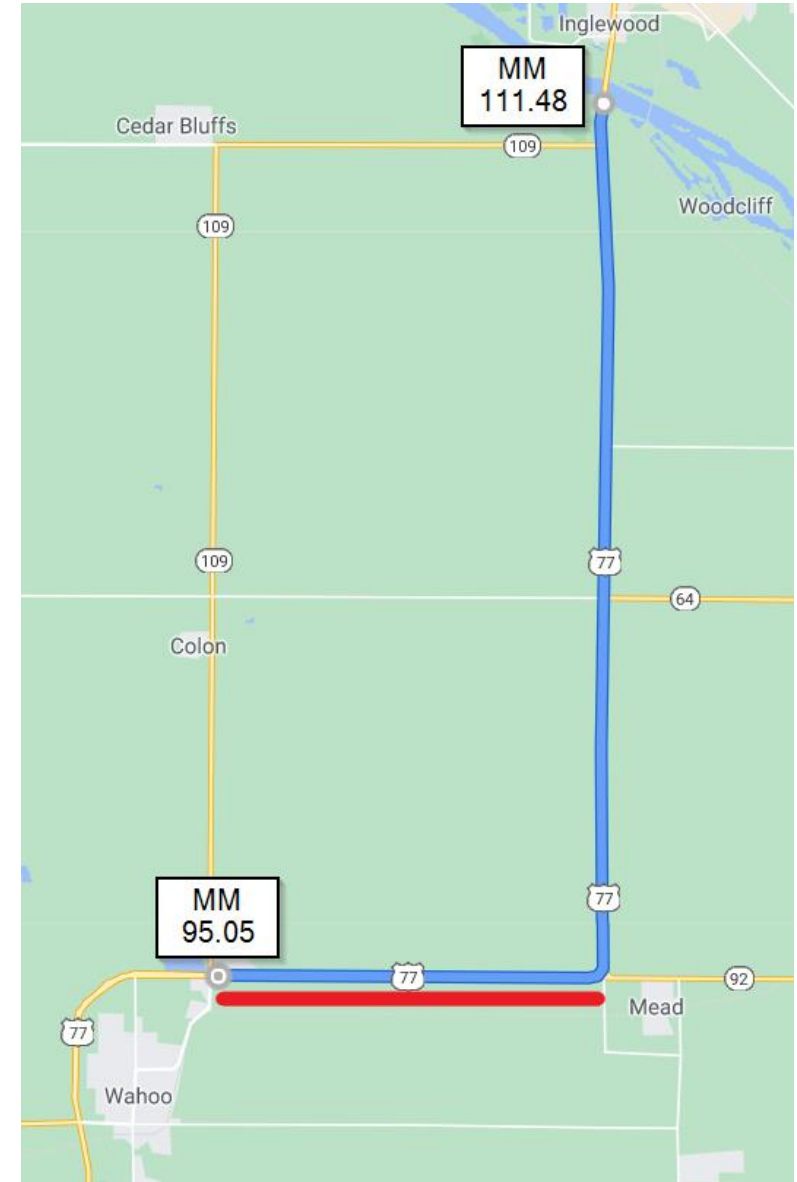


# Previous Analysis



# Wahoo - Mead

- South (right) of existing lanes
- Anticipated first construction package
- Construction cost \$24 M



# Mead North

- East (right) of existing lanes
- Anticipating two construction packages
- Mead to N-64
  - Construction cost \$33 M
- N-64 to Fremont
  - Construction cost \$38 M



# Costs

- Wahoo – Mead, \$24M
- Mead North, \$33M
- Fremont South, \$38M

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**TOTAL Cost (with PE/CE/Utilities/ROW) \$117M**

